

1 WHAT IS CLAIMED IS:

5 1. A purchased commodity accommodating and transporting apparatus having a self scanning function, comprising:

a commodity code reading section for reading a commodity code applied to a commodity;

10 an accommodation section for accommodating therein a commodity whose commodity code has been read by said commodity code reading section;

a weighing equipment for measuring the total weight of commodities accommodated in said accommodation section;

15 a weight determination section for detecting the variation of the total weight of the commodities in said accommodation section measured by said weighing equipment; and

20 an alarm generation section for generating an alarm when it is determined by said weight determination section that the total weight of the commodities in said accommodation section measured by said weighing equipment has changed without reading a commodity code by said commodity code reading section.

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2. The purchased commodity accommodating and

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1 transporting apparatus having a self scanning function
as claimed in claim 1, further comprising an alarm
cancellation section for cancelling the alarm generated
from said alarm generation section when it is determined
5 by said weight determination section that the total
weight of the commodities in said accommodation section,
which changed without reading a commodity code by said
commodity code reading section, has returned to its
original weight before the change.

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3. A POS system, comprising:

a plurality of purchased commodity accommodating
and transporting apparatus having a self scanning
15 function and each including a commodity code reading
section for reading a commodity code applied to a
commodity, and an accommodation section for
accommodating therein a commodity whose commodity code
has been read by said commodity code reading section;
20 and

a management section for managing said purchased
commodity accommodating and transporting apparatus;

each of said purchased commodity accommodating
and transporting apparatus including:

25 a weighing equipment for measuring the total
weight of commodities accommodated in said accommodation
section;

1 a weight determination section for detecting the
variation of the total weight of the commodities in said
accommodation section measured by said weighing
equipment;

5 an alarm generation section for generating an
alarm when it is determined by said weight determination
section that the total weight of the commodities in said
accommodation section measured by said weighing
equipment has changed without reading a commodity code
10 by said commodity code reading section;

 a timer for counting an alarm generation time by
said alarm generation section;

 a timer determination section for determining
whether or not the counted time by said timer reaches a
15 predetermined time; and

 an error transmission section for transmitting,
when it is determined by said timer determination
section that the counted time by said timer has reached
the predetermined time, unique information of the
20 purchased commodity accommodating and transporting
apparatus as error information to said management
section.

25 4. The POS system as claimed in claim 3,
wherein said management section includes an error
reception section for receiving the error information

1 from said error transmission section of any of said
purchased commodity accommodating and transporting
apparatus, an error display section for displaying, when
the error information is received by said error
5 reception section, the unique information of one of said
purchased commodity accommodating and transporting
apparatus from which the error information has been
transmitted, and an error cancellation section for
cancelling the display of the unique information of the
10 one purchased commodity accommodating and transporting
apparatus on said error display section when a
countermeasure for the one purchased commodity
accommodating and transporting apparatus, from which the
error information has been transmitted, is completed.

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5. A purchased commodity accommodating and
transporting apparatus having a self scanning function,
comprising:

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a commodity code reading section for reading a
commodity code applied to a commodity;

an accommodation section for accommodating
therein a commodity whose commodity code has been read
by said commodity code reading section;

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a weighing equipment for measuring the total
weight of commodities accommodated in said accommodation
section;

1 a commodity weight retrieval section for
retrieving the weight of a commodity in accordance with
the commodity code information read by said commodity
code reading section;

5 a weight comparison section for comparing the
weight of the commodity retrieved by said commodity
weight retrieval section and the increment of the total
weight of the commodities in said accommodation section
after reading of the commodity code information measured
10 by said weighing equipment; and

 an alarm generation section for generating an
alarm when it is determined by said weight comparison
section that the weight of the commodity retrieved by
said commodity weight retrieval section and the
15 increment of the total weight of the commodities in said
accommodation section after reading of the commodity
code measured by said weighing equipment are different
from each other.

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6. The purchased commodity accommodating and
transporting apparatus having a self scanning function
as claimed in claim 5, further comprising a weight
determination section for detecting the variation of the
25 total weight of the commodities in said accommodation
section measured by said weighing equipment, and wherein
said alarm generation section generates an alarm when it

1 is determined by said weight determination section that
the total weight of the commodities in said
accommodation section measured by said weighing
equipment has changed without reading a commodity code
5 by said commodity code reading section.

7. A POS system, comprising:

a plurality of purchased commodity accommodating
10 and transporting apparatus having a self scanning
function and each including a commodity code reading
section for reading a commodity code applied to a
commodity, a commodity code registration section for
registering the commodity code information read by said
15 commodity code reading section, and an accommodation
section for accommodating therein a commodity whose
commodity code has been read by said commodity code
reading section;

a commodity information file for storing price
20 information of commodities corresponding to the
commodity code information as commodity information; and

a settlement POS terminal for retrieving said
commodity information file in accordance with the
commodity code information registered in said commodity
25 code registration section of any of said purchased
commodity accommodating and transporting apparatus to
perform final settlement of accounts for purchased

1 commodities accommodated in said accommodation section
of the purchased commodity accommodating and
transporting apparatus;

5 said commodity information file storing weight
information of individual commodities corresponding to
the commodity code information as commodity information;

each of said purchased commodity accommodating
and transporting apparatus including:

10 a weighing equipment for measuring the total
weight of commodities accommodated in said accommodation
section; and

a data transmission section for transmitting,
upon settlement of accounts at said settlement POS
terminal, the total weight of the commodities in said
15 accommodation section measured by said weighing
equipment to said settlement POS terminal;

said settlement POS terminal including:

20 a data reception section for receiving data from
said data transmission section of any of said purchased
commodity accommodating and transporting apparatus;

a commodity weight retrieval section for
retrieving the weights of the commodities corresponding
to the commodity code information from said commodity
information file in accordance with the commodity code
25 information of all commodities registered by said
commodity code registration section;

a total weight calculation section for

1 calculating the total weight of the weights of the
commodities retrieved by said commodity weight retrieval
section;

5 a weight comparison section for comparing the
total weight calculated by said total weight calculation
section and the total weight of the commodities in said
accommodation section received by said data reception
section; and

10 an alarm generation section for generating an
alarm when it is determined by said weight comparison
section that the total weight calculated by said total
weight calculation section and the total weight of the
commodities in said accommodation section received by
said data reception section are different from each
15 other.

8. The POS system as claimed in claim 7,
wherein each of said purchased commodity accommodating
20 and transporting apparatus includes a weight
determination section for detecting the variation of the
total weight of the commodities in said accommodation
section measured by said weighing equipment; and an
alarm generation section for generating an alarm when it
25 is determined by said weight determination section that
the total weight of the commodities in said
accommodation section measured by said weighing

1 equipment has changed without reading a commodity code
by said commodity code reading section.

5 9. A purchased commodity accommodating and
transporting apparatus having a self scanning function,
comprising:

a commodity code reading section for reading a
commodity code applied to a commodity;

10 a commodity code registration section for
registering the commodity code information read by said
commodity code reading section;

an accommodation section for accommodating
therein a commodity whose commodity code has been read
15 by said commodity code reading section;

said commodity code reading section being used
to read, upon settlement of accounts, the commodity code
of a commodity selected at random from the commodities
accommodated in said accommodation section;

20 a commodity registration determination section
for determining whether or not the commodity code
information read by said commodity code reading section
upon settlement of accounts is registered in said
commodity code registration section; and

25 an error notification section for notifying an
error when it is determined by said commodity
registration determination section upon settlement of

1 accounts that the commodity code information read by
said commodity code reading section is not registered.

5 10. A purchased commodity accommodating and
transporting apparatus having a self scanning function,
comprising:

a commodity code reading section for reading a
commodity code applied to a commodity;

10 a commodity code registration section for
registering the commodity code information read by said
commodity code reading section;

15 an accommodation section for accommodating
therein a commodity whose commodity code has been read
by said commodity code reading section; and

said commodity code reading section being used
to read, upon settlement of accounts, the commodity code
of a commodity selected at random from the commodities
accommodated in said accommodation section;

20 a commodity registration determination section
for determining whether or not the commodity code
information read by said commodity code reading section
upon settlement of accounts is registered in said
commodity code registration section;

25 said commodity code registration section
automatically registering the commodity code information
read by said commodity code reading section when it is

1 determined upon settlement of accounts by said commodity
registration determination section that the commodity
code information is not registered.

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11. The purchased commodity accommodating and
transporting apparatus having a self scanning function
as claimed in claim 10, further comprising an error
notification section for notifying an error when it is
10 determined upon settlement of accounts by said commodity
registration determination section that the commodity
code information read by said commodity code reading
section is not registered.

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12. A POS system, comprising:
a plurality of purchased commodity accommodating
and transporting apparatus having a self scanning
function and each including a commodity code reading
20 section for reading a commodity code applied to a
commodity, a commodity code registration section for
registering the commodity code information read by said
commodity code reading section, and an accommodation
section for accommodating therein a commodity whose
25 commodity code has been read by said commodity code
reading section; and

a settlement POS terminal for performing final

1 settlement of accounts for purchased commodities
accommodated in said accommodation section of any of
said purchased commodity accommodating and transporting
apparatus in accordance with the commodity code
5 information registered in said commodity code
registration section of the purchased commodity
accommodating and transporting apparatus;

said settlement POS terminal including:

10 a resonance tag detection section for detecting
a resonance tag applied in advance to each commodity to
detect the number of the commodities accommodated in
said accommodation section of any of said purchased
commodity accommodating and transporting apparatus; and

15 a commodity number comparison section for
comparing the number of the commodities detected by said
resonance tag detection section and the number of
registered commodities obtained in accordance with the
commodity code information registered by said commodity
code registration section.

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13. A purchased commodity accommodating and
transporting apparatus having a self scanning function,
comprising:

25 a commodity code reading section for reading a
commodity code applied to a commodity;

an accommodation section for accommodating

1 therein a commodity whose commodity code has been read
by said commodity code reading section;

5 a prepaid card inputting processing section for
receiving a prepaid card and reading remains information
of the prepaid card;

a commodity price retrieval section for
retrieving the price of the commodity in accordance with
the commodity code information read by said commodity
code reading section; and

10 a data updating section for registering a result
obtained by subtraction of the price of the commodity
retrieved by said commodity price retrieval section from
the remains information read by said prepaid card
inputting processing section as remains information of
15 the prepaid card to update the remains information.

14. The purchased commodity accommodating and
transporting apparatus having a self scanning function
20 as claimed in claim 13, further comprising a
notification section for notifying, when the remains
read by said prepaid card inputting processing section
runs short of the price of the commodity retrieved by
said commodity price retrieval section, such shortage.

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15. The purchased commodity accommodating and

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1 transporting apparatus having a self scanning function
as claimed in claim 14, further comprising a selection
section for selecting, when the remains read by said
prepaid card inputting processing section runs short of
5 the price of the commodity retrieved by said commodity
price retrieval section, whether the purchasing
processing is to be continued ^{by} inserting a second prepaid
card into said prepaid card inputting processing section
or the purchasing processing is to be ended.

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16. The purchased commodity accommodating and
transporting apparatus having a self scanning function
as claimed in claim 13, further comprising a receipt
15 issuance section for issuing a receipt upon completion
of the purchasing.

17. The purchased commodity accommodating and
20 transporting apparatus having a self scanning function
as claimed in claim 14, further comprising a receipt
issuance section for issuing a receipt upon completion
of the purchasing.

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18. The purchased commodity accommodating and
transporting apparatus having a self scanning function

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1 as claimed in claim 15, further comprising a receipt
issuance section for issuing a receipt upon completion
of the purchasing.

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19. The purchased commodity accommodating and
transporting apparatus having a self scanning function
as claimed in claim 16, further comprising a receipt
issuance selection section for selecting whether the
10 issuance of a receipt by said receipt issuance section
is necessary or unnecessary.

20. The purchased commodity accommodating and
15 transporting apparatus having a self scanning function
as claimed in claim 17, further comprising a receipt
issuance selection section for selecting whether the
issuance of a receipt by said receipt issuance section
is necessary or unnecessary.

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21. The purchased commodity accommodating and
transporting apparatus having a self scanning function
as claimed in claim 18, further comprising a receipt
25 issuance selection section for selecting whether the
issuance of a receipt by said receipt issuance section
is necessary or unnecessary.

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1 22. A purchased commodity accommodating and transporting apparatus having a self scanning function, comprising:

5 a commodity code reading section for reading a commodity code applied to a commodity;

an accommodation section for accommodating therein a commodity whose commodity code has been read by said commodity code reading section;

10 a magnetic card reading section for receiving a credit card or a bank card and reading magnetic information of the card;

15 a commodity price retrieval section for retrieving the price of the commodity in accordance with the commodity code information read by said commodity code reading section; and

20 an automatic clearing processing section for automatically clearing the amount of money corresponding to the price of the commodity retrieved by said commodity price retrieval section from an account corresponding to the magnetic information of the card read by said magnetic card reading section some other day.

25 23. The purchased commodity accommodating and transporting apparatus having a self scanning function as claimed in claim 22, further comprising a prepaid

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1 card inputting processing section for receiving a
prepaid card and reading ~~the~~ remains information of the
prepaid card, and a data updating section for
registering a result obtained by subtraction of the
5 price of the commodity retrieved by said commodity price
retrieval section from the remains information read by
said prepaid card inputting processing section as
remains information of the prepaid card to update the
remains information.

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24. The purchased commodity accommodating and
transporting apparatus having a self scanning function
as claimed in any one of claims 13 to 23, further
15 comprising a data reception section for receiving data
from a management section, and a power on/off drive
section for automatically turning the power source
on/off in response to a power on/off instruction
received from said management section by way of said
20 data reception section.

25. The purchased commodity accommodating and
transporting apparatus having a self scanning function
25 as claimed in any one of claims 13 to 23, further
comprising a weighing equipment for measuring the total
weight of commodities accommodated in said accommodation

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1 section, a weight determination section for detecting
the variation of the total weight of the commodities in
said accommodation section measured by said weighing
equipment, and an alarm generation section for
5 generating an alarm when it is determined by said weight
determination section that the total weight of the
commodities in said accommodation section measured by
said weighing equipment has changed without reading a
commodity code by said commodity code reading section.

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26. The purchased commodity accommodating and
transporting apparatus having a self scanning function
as claimed in claim 24, further comprising a weighing
15 equipment for measuring the total weight of commodities
accommodated in said accommodation section, a weight
determination section for detecting the variation of the
total weight of the commodities in said accommodation
section measured by said weighing equipment, and an
20 alarm generation section for generating an alarm when it
is determined by said weight determination section that
the total weight of the commodities in said
accommodation section measured by said weighing
equipment has changed without reading a commodity code
25 by said commodity code reading section.

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